

Summary of selected constituents in the California Aqueduct

(August 2012 to July 2013)

The Department of Water Resources (DWR) routinely collects surface water samples above and below groundwater pump-in points along the California Aqueduct. When non-project water is pumped into the California Aqueduct, samples are also collected at or near these pump-in locations. The samples are analyzed for a number of constituents by DWR's Bryte Laboratory and the data are available at: <http://www.water.ca.gov/waterdatalibrary/>.

Table 1 summarizes total groundwater pump-in volume in acre-feet (AF) from August 1, 2012 to July 31, 2013. Table 2 summarizes the average of selected constituent concentrations in the California Aqueduct above and below the pump-in locations for the same period. There was no difference in average monthly dissolved arsenic concentration in the California Aqueduct between the above and below pump-in locations.

Table 1: Total Groundwater Pump-in Volume in acre-feet

Year	Month	WRMWSD	CVC	KWB Canal	AEWSD	Monthly Total	Chrisman Pumping
2012	August	0	0	0	0	0	142,525
2012	September	0	0	0	0	0	155,070
2012	October	0	0	0	0	0	167,693
2012	November	0	0	0	0	0	158,673
2012	December	0	0	14,390	0	14,390	93,922
2013	January	0	0	14,507	0	14,507	86,957
2013	February	0	3,630	16,852	6,728	27,210	93,490
2013	March	0	6,378	21,829	5,299	33,506	94,077
2013	April	767	6,113	21,912	940	29,732	114,610
2013	May	442	916	20,165	428	21,951	93,880
2013	June	1,142	0	15,953	885	17,980	92,933
2013	July	713	0	16,537	114	17,364	151,145
Total (AF)		3,064	17,037	142,145	14,394	176,640	1,444,975

WRMWSD=Wheeler Ridge Maricopa Water Storage District, CVC = Cross Valley Canal (operated by Kern County Water Agency), KWB = Kern Water Bank (operated by the Kern Water Bank Authority), and AEWSD = Arvin-Edison Water Storage District.

Table 2: Water Quality data in the California Aqueduct Above and Below Groundwater Pump-in Locations

		Arsenic (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TDS (mg/L)	TOC (mg/L)
Above Pump-in location	Check 21	0.002	0.25	2.6	37.3	267	3.8
	(number of samples)	12	12	12	12	12	12
Below Pump-in location	Checks 39 and 41	0.002	0.24	2.7	38.1	271	3.1
	(number of samples)	12	12	12	12	12	12
Average Increase/Decrease		-	0.01	-0.1	-0.8	-4	0.7

All values in mg/L (ppm), DWR data only.